ABSTRACT

[0056] A system is provided for executing a system call originating in a local computer on a first remote computer connected to the local computer via a network. Communication is established between the local computer and the first remote computer via the network. A syscall server is installed in the first remote computer. A reference address is sent from the first remote computer to the local computer via the network through execution of code by the syscall server. A syscall request is built in the local computer with arguments determined using the reference address received from the first remote computer. The syscall request is sent from the local computer to the first remote computer via the network. The syscall request is copied into a stack of the first remote computer through execution of code by the syscall server. Registers are popped from the syscall request in the stack. Execution of a syscall request is initiated on the first remote computer. The result of the syscall request is pushed onto the stack. At least a portion of the result of the syscall request is sent to the local computer via the network through execution of code by the syscall server.